

## ABSTRACT

A differential apparatus having a limited slip differential mechanism  
5 which comprises a differential case, a pair of side gears housed in the  
differential case and connected to driving shafts, and pinion gears meshing  
with the pair of side gears. One of the tooth surfaces of each tooth of the side  
gears and the pinion gears has a large pressure angle and the other surface  
has a small pressure angle, such that meshing reaction forces  $D_r$  in a drive  
10 mode is larger than that of  $C_o$  in a coast mode to obtain different limiting  
forces.